

Product datasheet for **RG221794**

TrkB (NTRK2) (NM_006180) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TrkB (NTRK2) (NM_006180) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TrkB
Synonyms:	DEE58; EIEE58; GP145-TrkB; OBHD; trk-B; TRKB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221794 representing NM_006180
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGTCCTGGATAAGGTGGCATGGACCCGCCATGGCGCGGCTCTGGGCTTCTGCTGGCTGGTTGTGG
 GCTTCTGGAGGGCGCTTTCGCCTGTCCCACGTCTGCAAATGCAGTGCCTCTCGGATCTGGTGCAGCGA
 CCCTTCTCCTGGCATCGTGGCATTTCAGATTGGAGCCTAACAGTGTAGATCCTGAGAACATCACCGAA
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 GCCCCCAGGAGGTGATGAGCTGATGCTGGGTGCTGGCAGCAGAGCCCAATGAGGAAGAATCA
 GGGCATCCATACCCTCCTCAGAACTTGGCCAAGGCATCTCCGGTCTACCTGGACATTCTAGGC

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG221794 representing NM_006180
 Red=Cloning site Green=Tags(s)

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MSSWIRWHGPAMARLWGFCWL VVGFWRAAFACPTSCCKCSASRIWCSDPSPGIVAFPRLEPNSVDPENITE
IFIANQKRLEIINEDDVEAYVGLRNLTI VDSGLKFVAHKAFKNSNLQHINFRNKLTSLSRKHFRHLDL
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GKSITLSCSVAGDPVPNMYWDVGNL VSKHMNETSHTQGSLRITNISDDSGKQISCVAENLVGEDQDSVN
LTVHFAPTITFLESPTSDDHWCIPFTVKGNPKPALQWFYNGAILNESKYICTKIHV TNHTEYHGCLQLDN
PTHMNGDYTLIAKNEYGKDEKQISA HFMGWP GIDDGANPNYPDVIYEDYGTAAANDIGD TTNRSNEIPST
DVTDKTGREHLSVYAVVVIASVVG FCLLVMLFLLKLARHSKFGMKDFSWFGFGKVKSRQGVGPASVISND
DDSASPLHHISNGSNTSPSSSEG GPDAVIIGMTKIPVIENPQYFGITNSQLKPDTFVQH IKRHNIVLKREL
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GENLLVKIGDFGMSRDVYSTDYR VGGHTMLPIRWMPPESIMYRKFTTESDVWSLGVVLWEIFTY GKPQW
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_006180.6](#)

RefSeq Size: 5608 bp

RefSeq ORF: 2517 bp

Locus ID: 4915

UniProt ID: [Q16620](#)

Cytogenetics: 9q21.33

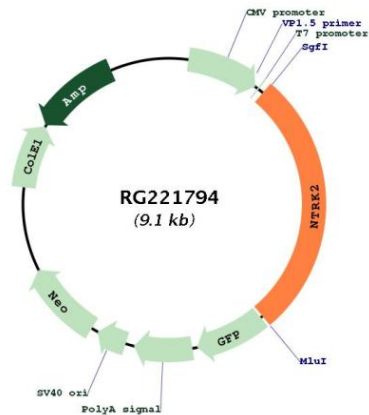
Domains: LRRNT, LRRCT, pkinase, TyrKc, LRR, S_TKc, ig, IGc2, IG

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: MAPK signaling pathway, Neurotrophin signaling pathway

Gene Summary: This gene encodes a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation. Mutations in this gene have been associated with obesity and mood disorders. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

Product images:



Circular map for RG221794